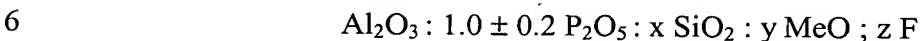


1 What is claimed is:

2

3 1. A molecular sieve whose chemical composition, expressed in terms of  
4 mole ratios of oxides after calcination, is:

5



7

8 where x has a value of 0 to 0.2, y has a value of 0 to 0.2, z has a value of 0 to 0.10 and  
9 Me represents at least one element, other than aluminum, phosphorus or silicon,  
10 which is capable of forming an oxide in coordination with (AlO<sub>2</sub>) and (PO<sub>2</sub>) oxide  
11 structural units in the molecular sieve, the molecular sieve having, after calcination  
12 and in a hydrated state, the X-ray diffraction lines of Table II.

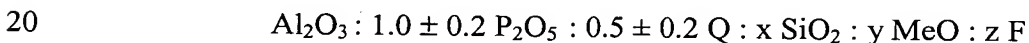
13

14 2. The molecular sieve of claim 1 wherein Me is selected from the group  
15 consisting of magnesium, manganese, cobalt, zinc and nickel.

16

17 3. A molecular sieve composition, as-synthesized, whose general  
18 formula, in terms of mole ratios, is as follows:

19



21

22 where x has a value of 0 to 0.2, y has a value of 0 to 0.2, Q is 4-  
23 dimethylaminopyridine, z has a value of 0.02 to 0.50 and Me represents at least one  
24 element, other than aluminum, phosphorus or silicon, which is capable of forming an  
25 oxide in coordination with (AlO<sub>2</sub>) and (PO<sub>2</sub>) oxide structural units in the molecular  
26 sieve.

27

28 4. The molecular sieve of claim 3 wherein Me is selected from the group  
29 consisting of magnesium, manganese, cobalt, zinc and nickel.

30

31 5. The molecular sieve of claim 3 having, in an anhydrous state, the X-  
32 ray diffraction lines of Table I.

33

1           6.           The molecular sieve of claim 4 having, in an anhydrous state, the X-  
2 ray diffraction lines of Table I.

3

4           7.           A method of preparing a crystalline material comprising contacting  
5 under crystallization conditions a reaction mixture comprising a reactive source of  
6 aluminum, a reactive source of phosphorus, a reactive source of fluoride and an  
7 organic templating agent comprising 4-dimethylaminopyridine.

8

9           8.           The method of claim 7 wherein the reaction mixture further comprises  
10 a reactive source of a metal selected from the group consisting of magnesium,  
11 manganese, cobalt, zinc and nickel.